

MASTER OF RURAL DEVELOPMENT
First Semester
NATURAL RESOURCE MANAGEMENT
(MRD - 104)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

1. Answer any *five* of the following questions:

- 1."Resources are not;theybecome".In this backdrop, explain the concept of Resources.
10
 - 2.What is ecosystem? Give an account of the structure and function of ecosystem.
2+8=10
 - 3.Define biome.Explain the different biomes of ecosystem.
2+8=10
 - 4.What is CPR?Write the characteristics of CPRs.Discuss the Tragedy of commons in terms of CPRs.
2+3+5=10
 - 5.What is natural resource?.Discuss the role of natural resources in economic development of a country.
2+8=10
 - 6.Define energy crisis?What are the factors that led to energy crisis?Give an account of chief conventional sources of energy.
2+4+4=10
 - 7.Explain the indogeneous management system of CPR.Discuss the steps taken by the state for the regulation of CPRs.
5+5=10
 - 8.What is biogeochemical cycle? Explain the cycle of nitrogen in an ecosystem with suitable example.
2+8=10
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Duration: 20 minutes

Marks – 20

(PART A- Objective Type)

I. Choose the correct answer:

1×20=20

1. Natural resources are –
 - a. exhaustible resources
 - b. inexhaustible resources
 - c. both a and b
 - d. None of these
2. The food chain in which micro-organisms breakdown the energy rich compounds synthesized by producers:
 - a. Predator food chain
 - b. Parasitic food chain
 - c. Detritus food chain
 - d. None of these.
3. India has largest supply of which mineral next to Russia-
 - a. Chromite
 - b. Manganese
 - c. Coal
 - d. None of these
4. In India the net sown area of CPRs declined to-
 - a. 29%
 - b. 33%
 - c. 30%
 - d. None of these
5. The total interacting animals and plants in any well defined area such as pond is-
 - a. Biosphere
 - b. Ecosystem
 - c. Biome
 - d. Community
6. Which one has evergreen vegetation and drought adapted animals?
 - a. Chaparral
 - b. Savanna
 - c. Tundra
 - d. Deciduous forest
7. Boreal forest is also known as-
 - a. Coniferous forest
 - b. Taiga forest
 - c. Both a and b
 - d. None of these

8. The percentage of fresh water form of water on earth is-

- a. 9%
- b. 7%
- c. 5%
- d. 3%

9. The energy flow in an ecosystem is-

- a. Cyclic
- b. Unidirectional
- c. Multidirectional
- d. None of these

10. Which of the following states in India leads in the production of lead and zinc?

- a. Rajasthan
- b. Jharkhand
- c. Uttar Pradesh
- d. Bihar

11. Joint Forest Management originated in-

- a. West Bengal
- b. Orissa
- c. Bihar
- d. None of these

12. In India the contribution of CPRs in household income is-

- a. 25%
- b. 26%
- c. Both a and b
- d. None of these

13. Tragedy of Commons was propounded by-

- a. Garret Hardin
- b. William Forster Lloyd
- c. John William
- d. None of these

14. Prisoner's Dilemma was originally framed by-

- a. Merrill Flood
- b. Melvin Dresher
- c. Both a and b
- d. None of these

15. The average thickness of biosphere is about-

- a. 25 km
- b. 35 km
- c. 26 km
- d. None of these

16. An example of perpetual resource is-
- a. Air
 - b. Forest
 - c. Minerals
 - d. All the above
17. PRA is a technique to evaluate-
- a. The available resources
 - b. To plan village development activities
 - c. Both a and b
 - d. None of these
18. "Ecology is the study of structure and functions of ecosystem" was put forth by whom?
- a. E. P. Odum
 - b. A. G. Tansley
 - c. Warming
 - d. None of these
19. An element in nature is a neutral stuff was given by –
- a. Zimmermann
 - b. Hogget
 - c. Both a and b
 - d. None of these
20. The biggest source of energy on earth's surface is-
- a. Coal
 - b. Tides
 - c. Atoms
 - d. Solar radiations
